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**Department of Defense
Fiscal Year (FY) 2012 Budget Estimates**

February 2011



The Joint Staff

Justification Book Volume 5

Research, Development, Test & Evaluation, Defense-Wide

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The Joint Staff • President's Budget FY 2012 • RDT&E Program

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Defense-Wide
 FY 2012 President's Budget
 Exhibit R-1 FY 2012 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

02 Feb 2011

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2010 (Base & OCO)	FY 2011 Base Request with CR Adj*	FY 2011 OCO Request with CR Adj*	FY 2011 Total Request with CR Adj*	FY 2011 Annualized CR Base**	FY 2011 Annualized CR OCO**	FY 2011 Annualized CR Total**	Se
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146	0605126J	Joint Integrated Air and Missile Defense Organization (JIAMDO)	06	97,047	94,577		94,577	94,410		94,410	U
171	0204571J	Joint Staff Analytical Support	06	2,362	23,081		23,081	23,040		23,040	U
		RDT&E Management Support		99,409	117,658		117,658	117,450		117,450	
190	0208043J	Classified Programs	07	3,617	2,288		2,288	2,284		2,284	U
210	0303149J	C4I for the Warrior	07	3,739	2,261		2,261	2,257		2,257	U
250	0902298J	Management Headquarters (JCS)	07	5,011	2,807		2,807	2,802		2,802	U
		Operational Systems Development		12,367	7,356		7,356	7,343		7,343	
Total Research, Development, Test & Eval, DW				111,776	125,014		125,014	124,793		124,793	

R-1P: FY 2012 President's Budget (Published Official Position With FY 2011 CR Adjustments), as of February 2, 2011 at 11:50:20

* Reflects the FY 2011 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.

** Adjusts each budget line included in the FY 2011 President's Budget request proportionally to match the Annualized Continuing Resolution funding level for each appropriation.

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Program Element Table of Contents (by Budget Activity then Line Item Number)

Budget Activity 06: RDT&E Management Support
Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide

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171	06	0204571J	Joint Staff Analytical Support (JSAS).....	Volume 5 - 747

Budget Activity 07: Operational Systems Development
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Line Item	Budget Activity	Program Element Number	Program Element Title	Page
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210	07	0303149J	Command, Control, Communications, Computers, and Intelligence for the Warrior (C4IFTW).....	Volume 5 - 755
250	07	0902298J	Management Headquarters.....	Volume 5 - 763

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Program Element Table of Contents (Alphabetically by Program Element Title)

Program Element Title	Program Element Number	Line Item	Budget Activity	Page
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Joint Integrated Air & Missile Defense Organization (JIAMDO)	0605126J	146	06.....Volume 5 - 731	
Joint Staff Analytical Support (JSAS)	0204571J	171	06.....Volume 5 - 747	
Management Headquarters	0902298J	250	07.....Volume 5 - 763	
Planning and Decision Aid System (PDAS)	0208043J	190	07.....Volume 5 - 753	

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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 The Joint Staff **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605126J: <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	97.047	94.577	79.859	-	79.859	67.255	59.037	62.240	59.031	Continuing	Continuing
P001: <i>Core</i>	25.294	26.183	9.030	-	9.030	11.448	10.325	13.113	9.216	Continuing	Continuing
P002: <i>Homeland</i>	21.000	19.000	25.000	-	25.000	8.000	-	-	-	0.000	73.000
P003: <i>Black Dart</i>	4.000	4.500	5.000	-	5.000	5.500	6.000	6.500	6.591	Continuing	Continuing
P004: <i>Joint Distributed Engineering Plant</i>	8.439	8.735	8.927	-	8.927	9.124	9.287	9.474	9.606	Continuing	Continuing
P005: <i>Nimble Fire</i>	21.528	18.477	13.685	-	13.685	14.115	14.327	14.323	14.524	Continuing	Continuing
P006: <i>Cruise Missile Combat Identification (CID)</i>	16.786	17.682	18.217	-	18.217	19.068	19.098	18.830	19.094	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Joint Integrated Air and Missile Defense Organization (JIAMDO), formerly Joint Theater Air and Missile Defense Organization, is the organization within the Department of Defense (DOD) chartered to plan, coordinate, and oversee Joint Air and Missile Defense (AMD) requirements, joint operational concepts, and operational architectures. As part of the CJCS staff, JIAMDO supports the Chairman in meeting his Title 10 responsibilities as they relate to air and missile defense issues. JIAMDO serves as the operational community's proponent for characteristics, requirements, and capabilities in air and missile defense, and is the joint air and missile defense resource proponent within the DOD's resource allocation structures. JIAMDO also leads AMD mission area and utility analyses, integrates air and missile defense within the Force Protection joint capability area, and conducts evaluations and demonstrations of joint air and missile defense architectures and concepts.

JIAMDO has established a close partnership with Combatant Commands (COCOMs) and maintains liaison offices at all major COCOM locations to facilitate coordination of integration issues and requirements. In particular, JIAMDO maintains close coordination with US Strategic Command (USSTRATCOM) in support of ballistic missile defense of the US. It provides the Chairman, JCS and the Joint Requirements Oversight Council (JROC) the ability to meet statutory responsibilities to review the cost, schedule and performance criteria of Missile Defense Agency (MDA) missile defense programs, and assesses the validity of those criteria in relation to national and military requirements. At the request of USSTRATCOM, and at the direction of the CJCS, JIAMDO supports USSTRATCOM in the conduct of Military Utility Assessments and analysis of the Ballistic Missile Defense System (BMDS). JIAMDO supports the USSTRATCOM mission by ensuring operational and technical requirements are integrated into the theater missile warning architecture. JIAMDO represents the Joint Staff in work on the AMD Capabilities Based Assessment Joint Service Team. JIAMDO also provides direct support to US Northern Command (USNORTHCOM) for homeland air surveillance issues and to US Joint Forces Command (USJFCOM) for capabilities development and validation in support of its Unified Command Plan (UCP) assigned missions.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 The Joint Staff	DATE: February 2011
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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605126J: <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>
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B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	97.047	94.577	97.264	-	97.264
Current President's Budget	97.047	94.577	79.859	-	79.859
Total Adjustments	-	-	-17.405	-	-17.405
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• JIAMDO-CORE: Eliminate Contracted Advisory and Assistance Services	-	-	-17.315	-	-17.315
• JIAMDO-CORE: Reduce Travel Requirements - Increase Secure Video Tele- Conference Use	-	-	-0.090	-	-0.090

Change Summary Explanation

JIAMDO-Homeland: Programs will be near development completion and conducting Military Utility Assessment, which requires live assets and integration development.

JIAMDO-Core: The Joint Staff plans to reduce dependence upon contracted advisory and assistance service efforts, and increase leverage upon organic (military and federal civilian) labor.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605126J: <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>	PROJECT P001: <i>Core</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
P001: <i>Core</i>	25.294	26.183	9.030	-	9.030	11.448	10.325	13.113	9.216	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The Joint Integrated Air and Missile Defense Organization (JIAMDO), formerly Joint Theater Air and Missile Defense Organization, is the organization within the Department of Defense (DOD) chartered to plan, coordinate, and oversee Joint Air and Missile Defense (AMD) requirements, joint operational concepts, and operational architectures. As part of the CJCS staff, JIAMDO supports the Chairman in meeting his Title 10 responsibilities as they relate to air and missile defense issues. JIAMDO serves as the operational community's proponent for characteristics, requirements, and capabilities in air and missile defense, and is the joint air and missile defense resource proponent within the DOD's resource allocation structures. JIAMDO also leads AMD mission area and utility analyses, integrates air and missile defense within the Force Protection joint capability area, and conducts evaluations and demonstrations of joint air and missile defense architectures and concepts.

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B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2010	FY 2011	FY 2012
Title: Core	25.294	26.183	9.030
Description: Provides overall staff support for JIAMDO operations in the area of ballistic missile defense, air and cruise missile defense and homeland defense. This includes performing analyses, demonstrations, and programmatic assessments of technology, operations, requirements, and weapons systems. In coordination with Services and COCOMs, JIAMDO Core also leads the definition, assessment, development, and approval of Joint AMD Operational Concepts, Operational Architectures, and capability requirements to guide the Department's joint/interagency/combined fully integrated and net-centric capable air defense (including defense against cruise missiles, unmanned aerial vehicles, and ballistic missiles). JIAMDO Core also: <ul style="list-style-type: none"> • Develops and integrates joint exercises, simulations, war-games, force resource allocations, and interoperability initiatives 			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff		DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605126J: <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>	PROJECT P001: <i>Core</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012
<ul style="list-style-type: none"> • Manages relevant Congressional interaction and COCOM interface through a cadre of liaisons collocated with major headquarters • Directly supports and sponsors homeland air surveillance related demonstration and analysis activities • Runs the AMD Working Group focusing COCOM, Joint Staff, and Service collaboration efforts in the generation of joint concepts and development of the integrated AMD architecture and roadmap • Develops US positions for, and serves as the US representative to, the NATO Air Defense Committee <p>JIAMDO Core also enables strategic planning development, infrastructure, security, travel, administrative and other support activities. Funding pays for: Contractor Systems Engineering and Technical Assistance (SETA) support for Air & Cruise Missile Defense (ACMD), Ballistic Missile Defense (BMD), Homeland Air Security (HAS) strategic planning, senior level briefings, and JIAMDO white papers; leased office space, including all upkeep services; all travel costs for government and contractor support personnel, including support for Combatant Commander liaison personnel travel; multiple levels of security including lease support for a Joint Worldwide Intelligence Communications System (JWICS) communications line and Special Compartmented Information (SCI) terminals (due to the classified nature and the diverse content of work in the JIAMDO portfolio); 24-hour physical security force and alarm monitoring and maintenance; daily on-site security personnel to meet DOD, National Industrial Security Program Operating Manual (NISPOM), and other security regulations; for all administrative and support functions; all associated Information Technology (IT) support, copier purchase and maintenance, as well as basic office supplies and furniture; all telephones, telephone lines, classified telephones, and classified/unclassified data connections.</p> <p>FY 2010 Accomplishments: Performed Ballistic Missile Defense directed studies (CMI, IFOSCA, SBI, FSS), and program support activities (contracting, finance, systems engineering and technical assistance, administration, security, communications, leased space and supply).</p> <p>FY 2011 Plans: Performed Ballistic Missile Defense directed studies and program support activities (contracting, finance, systems engineering and technical assistance, administration, security, communications, leased space and supply).</p> <p>FY 2012 Plans: Perform Ballistic Missile Defense directed studies and program support activities (contracting, finance, systems engineering and technical assistance, administration, security, communications, leased space and supply). Program will reduced dependence on contracted advisory and assistance services, and intends to leverage organic (military and federal civilian) labor to achieve planned mission.</p>				
Accomplishments/Planned Programs Subtotals		25.294	26.183	9.030

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605126J: <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>	PROJECT P001: <i>Core</i>

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

Not required for Budget Activities 1, 2, 3 and 6.

E. Performance Metrics

- Conduct two Protection Functional Capability Boards per month
- Conduct two Air and Missile Defense Working Groups per month
- Conduct Change Control Boards per quarter
- Support U.S. Representative to NATO Air Defense Council (NADC) to include 2 overseas NADC meetings per year
- Develop and maintain electronic library of current Joint and Service AMD Publications
- Develop and maintain operational architecture compliant with DoD architectural framework (DODAF) standards
- Ensure 100% of all government employee travel is in accordance with the JFTR/JTR
- Maintain all unclassified/classified LANs on a daily basis in accordance with TJS Office of the Chief Information Officer guidance/policy
- Ensure all computers NIPRNET/SIPRNET are refreshed according to OCIO policy/guidance

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605126J: <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>	PROJECT P002: <i>Homeland</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
P002: <i>Homeland</i>	21.000	19.000	25.000	-	25.000	8.000	-	-	-	0.000	73.000
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The Joint Integrated Air and Missile Defense Organization (JIAMDO), formerly Joint Theater Air and Missile Defense Organization, is the organization within the Department of Defense (DOD) chartered to plan, coordinate, and oversee Joint Air and Missile Defense (AMD) requirements, joint operational concepts, and operational architectures. As part of the CJCS staff, JIAMDO supports the Chairman in meeting his Title 10 responsibilities as they relate to air and missile defense issues. JIAMDO serves as the operational community's proponent for characteristics, requirements, and capabilities in air and missile defense, and is the joint air and missile defense resource proponent within the DOD's resource allocation structures. JIAMDO also leads AMD mission area and utility analyses, integrates air and missile defense within the Force Protection joint capability area, and conducts evaluations and demonstrations of joint air and missile defense architectures and concepts.

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B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2010	FY 2011	FY 2012
Title: Homeland	21.000	19.000	25.000
Description: Develop Homeland Surveillance technologies to enable Joint Integrated Air and Missile Defense.			
FY 2010 Accomplishments: Performed technology development efforts. Specific details of this project are classified.			
FY 2011 Plans: Perform technology development efforts. Specific details of this project are classified.			
FY 2012 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff	DATE: February 2011
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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605126J: <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>	PROJECT P002: <i>Homeland</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
Perform technology development efforts. Specific details of this project are classified.			
Accomplishments/Planned Programs Subtotals	21.000	19.000	25.000

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

Not required for Budget Activities 1, 2, 3 and 6.

E. Performance Metrics

Details of this project are classified.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605126J: <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>	PROJECT P003: <i>Black Dart</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
P003: <i>Black Dart</i>	4.000	4.500	5.000	-	5.000	5.500	6.000	6.500	6.591	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The Joint Integrated Air and Missile Defense Organization (JIAMDO), formerly Joint Theater Air and Missile Defense Organization, is the organization within the Department of Defense (DOD) chartered to plan, coordinate, and oversee Joint Air and Missile Defense (AMD) requirements, joint operational concepts, and operational architectures. As part of the CJCS staff, JIAMDO supports the Chairman in meeting his Title 10 responsibilities as they relate to air and missile defense issues. JIAMDO serves as the operational community's proponent for characteristics, requirements, and capabilities in air and missile defense, and is the joint air and missile defense resource proponent within the DOD's resource allocation structures. JIAMDO also leads AMD mission area and utility analyses, integrates air and missile defense within the Force Protection joint capability area, and conducts evaluations and demonstrations of joint air and missile defense architectures and concepts.

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B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2010	FY 2011	FY 2012
Title: JIAMDO Black Dart	4.000	4.500	5.000
Description: Provides funding to support administration and execution of Black Dart demonstrations. Black Dart is a joint agency demonstration which focuses on rapid development and implementation of UAV technology from readily-available commercial products.			
FY 2010 Accomplishments: Continued to detect, identify, and interdict UAV's demonstration event and supporting analysis (includes targets). Performed desert/ mountain demonstration and developed lessons learned.			
FY 2011 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff	DATE: February 2011
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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605126J: <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>	PROJECT P003: <i>Black Dart</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
Detect, ID, and interdict UAV's demonstration event and supporting analysis (includes targets). Assess C-UAS across IAMD kill chain in littoral/ maritime environment, quantify detection and track performance, understand C-UAS aspects of IAMD architecture, establish operational / technical performance, enable Allied/Coalition participation, determine environmental impacts, increase fidelity of threat representations and emissions <i>FY 2012 Plans:</i> Assess C-UAS across IAMD kill chain in littoral/ maritime environment. Quantify identification performance. Understand C-UAS aspects of IAMD architecture. Establish operational / technical performance. Enable Allied/Coalition participation. Determine environmental impacts. Increase fidelity of threat representations' size & performance. Use US systems as surrogates.			
Accomplishments/Planned Programs Subtotals	4.000	4.500	5.000

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

Not required for Budget Activities 1, 2, 3 and 6.

E. Performance Metrics

- Complete events within schedule and budget. Events provide useful data to improve C-UAS capability
- Document gaps, develop & substantiate hardware, software and employment concepts
- Field C-UAS capability

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605126J: <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>	PROJECT P004: <i>Joint Distributed Engineering Plant</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
P004: <i>Joint Distributed Engineering Plant</i>	8.439	8.735	8.927	-	8.927	9.124	9.287	9.474	9.606	Continuing	Continuing
Quantity of RDT&E Articles											

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The Joint Integrated Air and Missile Defense Organization (JIAMDO), formerly Joint Theater Air and Missile Defense Organization, is the organization within the Department of Defense (DOD) chartered to plan, coordinate, and oversee Joint Air and Missile Defense (AMD) requirements, joint operational concepts, and operational architectures. As part of the CJCS staff, JIAMDO supports the Chairman in meeting his Title 10 responsibilities as they relate to air and missile defense issues. JIAMDO serves as the operational community's proponent for characteristics, requirements, and capabilities in air and missile defense, and is the joint air and missile defense resource proponent within the DOD's resource allocation structures. JIAMDO also leads AMD mission area and utility analyses, integrates air and missile defense within the Force Protection joint capability area, and conducts evaluations and demonstrations of joint air and missile defense architectures and concepts.

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B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2010	FY 2011	FY 2012
Title: Joint Distributed Engineering Plant (JDEP)	8.439	8.735	8.927
Description: Evaluates and improves interoperability by establishing and using a distributed, nationwide, hardware and software in-the-loop simulation capability that allows proposed combat capabilities and field combat weapon systems to operate in operationally representative, synthetic joint air and missile defense environments.			
FY 2010 Accomplishments: Funded ten joint distributed test events. Executed coalition test event with UK. Provided users the means to create SoS environments by linking existing capabilities using hardware, software, and operator-in-the-loop. Linked existing Service and			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff		DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605126J: <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>	PROJECT P004: <i>Joint Distributed Engineering Plant</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012
<p>Joint combat system engineering and test sites via distributed communications. Reduced costs and developmental cycle times by leveraging existing facilities.</p> <p>FY 2011 Plans: Fund approximately ten joint distributed test events. Execute coalition test event with UK. Provide users the means to create SoS environments by linking existing capabilities using hardware, software, and operator-in-the-loop. Link existing Service and Joint combat system engineering and test sites via distributed communications. Reduce costs and developmental cycle times by leveraging existing facilities and additional efforts determined by Service/COCOM priorities.</p> <p>FY 2012 Plans: Fund approximately ten joint distributed test events. Execute coalition test event with UK, provide users the means to create SoS environments by linking existing capabilities using hardware, software, and operator-in-the-loop. Link existing Service and Joint combat system engineering and test sites via distributed communications. Reduce costs and developmental cycle times by leveraging existing facilities.</p>				
Accomplishments/Planned Programs Subtotals		8.439	8.735	8.927
C. Other Program Funding Summary (\$ in Millions)				
N/A				
D. Acquisition Strategy				
Not required for Budget Activities 1, 2, 3 and 6.				
E. Performance Metrics				
<ul style="list-style-type: none"> - Each JDEP event develops measures of effectiveness (MOE) & measures of performance (MOP) based on a eighteen month test planning and event process - Complete events within schedule and budget - Events provide useful data to improve AMD interoperability, with implemented corrective changes 				

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605126J: <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>	PROJECT P005: <i>Nimble Fire</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
P005: <i>Nimble Fire</i>	21.528	18.477	13.685	-	13.685	14.115	14.327	14.323	14.524	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The Joint Integrated Air and Missile Defense Organization (JIAMDO), formerly Joint Theater Air and Missile Defense Organization, is the organization within the Department of Defense (DOD) chartered to plan, coordinate, and oversee Joint Air and Missile Defense (AMD) requirements, joint operational concepts, and operational architectures. As part of the CJCS staff, JIAMDO supports the Chairman in meeting his Title 10 responsibilities as they relate to air and missile defense issues. JIAMDO serves as the operational community's proponent for characteristics, requirements, and capabilities in air and missile defense, and is the joint air and missile defense resource proponent within the DOD's resource allocation structures. JIAMDO also leads AMD mission area and utility analyses, integrates air and missile defense within the Force Protection joint capability area, and conducts evaluations and demonstrations of joint air and missile defense architectures and concepts.

JIAMDO has established a close partnership with Combatant Commands (COCOMs) and maintains liaison offices at all major COCOM locations to facilitate coordination of integration issues and requirements. In particular, JIAMDO maintains close coordination with US Strategic Command (USSTRATCOM) in support of ballistic missile defense of the US. It provides the Chairman, JCS and the Joint Requirements Oversight Council (JROC) the ability to meet statutory responsibilities to review the cost, schedule and performance criteria of Missile Defense Agency (MDA) missile defense programs, and assesses the validity of those criteria in relation to national and military requirements. At the request of USSTRATCOM, and at the direction of the CJCS, JIAMDO supports USSTRATCOM in the conduct of Military Utility Assessments and analysis of the Ballistic Missile Defense System (BMDS). JIAMDO supports the USSTRATCOM mission by ensuring operational and technical requirements are integrated into the theater missile warning architecture. JIAMDO represents the Joint Staff in work on the AMD Capabilities Based Assessment Joint Service Team. JIAMDO also provides direct support to US Northern Command (USNORTHCOM) for homeland air surveillance issues and to US Joint Forces Command (USJFCOM) for capabilities development and validation in support of its Unified Command Plan (UCP) assigned missions.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2010	FY 2011	FY 2012
Title: JIAMDO Nimble Fire	21.528	18.477	13.685
Description: The Department's only joint air and missile defense operator-in-the-loop simulation. Comprised of current and future land, sea, and air weapon systems representing each of the Services AMD capabilities. Operational personnel execute full mission scenarios in a realistic joint environment. Distributed simulation in CONUS and overseas. Enhances air and missile defense capability through the integration of robust representations of current and emerging weapons platform models that support operator-in-the-loop exercises.			
FY 2010 Accomplishments:			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff	DATE: February 2011
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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605126J: <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>	PROJECT P005: <i>Nimble Fire</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
<p>Purchased/upgraded Army PATRIOT/SLAMRAAM/MEADS and JLENS simulators. Enhanced Electronic Attack capabilities. Enhanced composite tracking on JLENS. Added 4 F-35 Joint Strike Fighter cockpits for USMC forces. Supported impacts of Electronic Attack in PACOM AOR from Asymmetric Missile Attack. Executed 3 operator in the loop events.</p> <p><i>FY 2011 Plans:</i> Purchase and upgrade Army PATRIOT/SLAMRAAM/MEADS and JLENS simulators. Enhanced Electronic Attack capabilities and composite tracking on JLENS. Add 4 F-35 Joint Strike Fighter cockpits for USMC forces. Support impacts of Electronic Attack in PACOM AOR from Asymmetric Missile Attack. Executing 3 operator in the loop events.</p> <p><i>FY 2012 Plans:</i> Continue to purchase and upgrade Army PATRIOT/SLAMRAAM/MEADS and JLENS simulators. Enhance Electronic Attack capabilities and composite tracking on JLENS. Add 4 F-35 Joint Strike Fighter cockpits for USMC forces. Support impacts of Electronic Attack in PACOM AOR from Asymmetric Missile Attack. Execute 3 operator in the loop events.</p>			
Accomplishments/Planned Programs Subtotals	21.528	18.477	13.685

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

Not required for Budget Activities 1, 2, 3 and 6.

E. Performance Metrics

- Complete events within schedule and budget
- Ensure adoption of advanced employment by services & COCOMs and their incorporation into system acquisition programs and warfighting
- Specific details are classified

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605126J: <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>	PROJECT P006: <i>Cruise Missile Combat Identification (CID)</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
P006: <i>Cruise Missile Combat Identification (CID)</i>	16.786	17.682	18.217	-	18.217	19.068	19.098	18.830	19.094	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The Joint Integrated Air and Missile Defense Organization (JIAMDO), formerly Joint Theater Air and Missile Defense Organization, is the organization within the Department of Defense (DOD) chartered to plan, coordinate, and oversee Joint Air and Missile Defense (AMD) requirements, joint operational concepts, and operational architectures. As part of the CJCS staff, JIAMDO supports the Chairman in meeting his Title 10 responsibilities as they relate to air and missile defense issues. JIAMDO serves as the operational community's proponent for characteristics, requirements, and capabilities in air and missile defense, and is the joint air and missile defense resource proponent within the DOD's resource allocation structures. JIAMDO also leads AMD mission area and utility analyses, integrates air and missile defense within the Force Protection joint capability area, and conducts evaluations and demonstrations of joint air and missile defense architectures and concepts.

JIAMDO has established a close partnership with Combatant Commands (COCOMs) and maintains liaison offices at all major COCOM locations to facilitate coordination of integration issues and requirements. In particular, JIAMDO maintains close coordination with US Strategic Command (USSTRATCOM) in support of ballistic missile defense of the US. It provides the Chairman, JCS and the Joint Requirements Oversight Council (JROC) the ability to meet statutory responsibilities to review the cost, schedule and performance criteria of Missile Defense Agency (MDA) missile defense programs, and assesses the validity of those criteria in relation to national and military requirements. At the request of USSTRATCOM, and at the direction of the CJCS, JIAMDO supports USSTRATCOM in the conduct of Military Utility Assessments and analysis of the Ballistic Missile Defense System (BMDS). JIAMDO supports the USSTRATCOM mission by ensuring operational and technical requirements are integrated into the theater missile warning architecture. JIAMDO represents the Joint Staff in work on the AMD Capabilities Based Assessment Joint Service Team. JIAMDO also provides direct support to US Northern Command (USNORTHCOM) for homeland air surveillance issues and to US Joint Forces Command (USJFCOM) for capabilities development and validation in support of its Unified Command Plan (UCP) assigned missions.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2010	FY 2011	FY 2012
Title: Cruise Missile Combat Identification (CID)	16.786	17.682	18.217
Description: Develops joint cruise missile CID technology, and positions it for fielding on front-line weapon systems. Monitors, assesses, and enhances joint AMD Combat ID programs.			
FY 2010 Accomplishments: Details of this program are classified.			
FY 2011 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff	DATE: February 2011
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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605126J: <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>	PROJECT P006: <i>Cruise Missile Combat Identification (CID)</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
Details of this program are classified.			
<i>FY 2012 Plans:</i> Details of this program are classified.			
Accomplishments/Planned Programs Subtotals	16.786	17.682	18.217

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

Not required for Budget Activities 1, 2, 3 and 6.

E. Performance Metrics

Details of this program are classified.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 The Joint Staff **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i>	PE 0204571J: <i>Joint Staff Analytical Support (JSAS)</i>
BA 6: <i>RDT&E Management Support</i>	

COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	2.362	23.081	0.018	-	0.018	-	-	-	-	0.000	25.461
P001: <i>Concept Development Red Teaming</i>	1.162	0.581	0.018	-	0.018	-	-	-	-	0.000	1.761
P002: <i>Global Force Management Data Initiative (GFM DI)</i>	1.200	22.500	-	-	-	-	-	-	-	0.000	23.700

A. Mission Description and Budget Item Justification

The Joint Staff Analytical Support (JSAS) family of programs provides defense analytical support capabilities for the CJCS and COCOMs. JSAS encompasses the developmental tools and infrastructure required to conduct analyses and formulate the results to best assist the Chairman in fulfilling his statutory responsibilities. Key deliverables provided by JSAS include wide-ranging force structure assessments, course of action development for the Joint Force environment, analyses and studies to aid in decision-making, and other analysis efforts to implement timely, low-cost initiatives.

B. Program Change Summary (\$ in Millions)

	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>
Previous President's Budget	2.362	23.081	0.598	-	0.598
Current President's Budget	2.362	23.081	0.018	-	0.018
Total Adjustments	-	-	-0.580	-	-0.580
• Congressional General Reductions					
• Congressional Directed Reductions					
• Congressional Rescissions	-	-			
• Congressional Adds					
• Congressional Directed Transfers					
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Contract reduction - Concept Development Red Teaming	-	-	-0.580	-	-0.580

Change Summary Explanation

The Joint Staff will reduce Concept Development Red Teaming contracts, and increase reliance upon organic (military and federal civilian) labor.

The Global Force Management Data Initiative incurred a one-time development effort in FY 2011 for \$22.5M. The requirement is not required in follow-on years.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0204571J: <i>Joint Staff Analytical Support (JSAS)</i>	PROJECT P001: <i>Concept Development Red Teaming</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
P001: <i>Concept Development Red Teaming</i>	1.162	0.581	0.018	-	0.018	-	-	-	-	0.000	1.761
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The Joint Staff Analytical Support (JSAS) family of programs provides defense analytical support capabilities for the CJCS and COCOMs. JSAS encompasses the developmental tools and infrastructure required to conduct analyses and formulate the results to best assist the Chairman in fulfilling his statutory responsibilities. Key deliverables provided by JSAS include wide-ranging force structure assessments, course of action development for the Joint Force environment, analyses and studies to aid in decision-making, and other analysis efforts to implement timely, low-cost initiatives.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2010	FY 2011	FY 2012
Title: Concept Development Red Teaming	1.162	0.581	0.018
Description: Funds discovery experimentation activities supporting Joint Operations Concept (JOpsC) Development Process, implementation, and system integration. Provides expert assessment of future conceptual approaches, alternate means to achieve future solutions and capabilities through Red Teaming. Supports development and competition of ideas that provide the fundamental underpinnings for force development and design critical to assessing risk to DoD future capabilities.			
FY 2010 Accomplishments: Subject matter experts provided assessments for nine Red Teaming concepts: 1) Supply 2) Unconventional Warfare 3) Foreign Internal Defense 4) Deterrence 5) Cyber 6) Security 7) Combat 8) Engagement 9) Relief and Reconstruction			
FY 2011 Plans: Increase Red Team activities by three additional future concepts. Five concepts are identified. The remaining seven are to be determined. 1) Energy Security Proposal			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff	DATE: February 2011
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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0204571J: <i>Joint Staff Analytical Support (JSAS)</i>	PROJECT P001: <i>Concept Development Red Teaming</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
2) Military Support to Security Sector Reform Proposal 3) USFK/Korea Command as a Regionally-Engaged & Globally-Deployable Force Proposal 4) Anti-Access 5) Counterterrorism 6-12) TBD <i>FY 2012 Plans:</i> Funding provides program support for one concept. This effort terminates there-after.			
Accomplishments/Planned Programs Subtotals	1.162	0.581	0.018

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

Increase support of the current Red Teaming concepts from nine to twelve in FY 2011.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0204571J: <i>Joint Staff Analytical Support (JSAS)</i>	PROJECT P002: <i>Global Force Management Data Initiative (GFM DI)</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
P002: <i>Global Force Management Data Initiative (GFM DI)</i>	1.200	22.500	-	-	-	-	-	-	-	0.000	23.700
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The Joint Staff Analytical Support (JSAS) family of programs provides defense analytical support capabilities for the CJCS and COCOMs. JSAS encompasses the developmental tools and infrastructure required to conduct analyses and formulate the results to best assist the Chairman in fulfilling his statutory responsibilities. Key deliverables provided by JSAS include wide-ranging force structure assessments, course of action development for the Joint Force environment, analyses and studies to aid in decision-making, and other analysis efforts to implement timely, low-cost initiatives.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2010	FY 2011	FY 2012
Title: Global Force Management Data Initiative (GFM DI)	1.200	22.500	-
Description: The GFM DI is the Department enterprise solution that enables comprehensive visibility, accessibility, and sharing of the entire DoD force information, which provides the Department with the capacity to integrate data across domains and systems. Provides the Department with improved decision-making ability by enabling solutions at the strategic, operational, and tactical level.			
FY 2010 Accomplishments: - Knowledge Management Decision Support (KM/DS) Joint Urgent Operational Needs (JUON) module - GFM DI Joint Organization Server messaging - GFM DI Next Steps CONOPS - Capability Development Tracking Management initial release			
FY 2011 Plans: - Acheive GFM DI Joint Organization Server full functionality - Completion of KM/DS Capability Development Tracking and Management - Complete Joint Staff Analytic Suite move from TS to Secret - Conduct GFM DI Interoperability Testing			
Accomplishments/Planned Programs Subtotals	1.200	22.500	-

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0204571J: <i>Joint Staff Analytical Support (JSAS)</i>	PROJECT P002: <i>Global Force Management Data Initiative (GFM DI)</i>

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

Enhance component servers to consume and appropriately document COCOM command authority relationship information.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 The Joint Staff **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0208043J: <i>Planning and Decision Aid System (PDAS)</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	3.617	2.288	2.402	-	2.402	2.522	2.248	2.361	2.394	Continuing	Continuing
P001: <i>Planning and Decision Aid System OPS</i>	3.617	2.288	2.402	-	2.402	2.522	2.248	2.361	2.394	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

Planning and Decision Aid System (PDAS) is a classified automated information system protected program under Secretary of Defense (SecDef). PDAS supports the planning and execution of Integrated Joint Special Technical Operations.

B. Program Change Summary (\$ in Millions)

	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>
Previous President's Budget	3.617	2.288	2.402	-	2.402
Current President's Budget	3.617	2.288	2.402	-	2.402
Total Adjustments	-	-	-	-	-
• Congressional General Reductions					
• Congressional Directed Reductions					
• Congressional Rescissions	-	-			
• Congressional Adds					
• Congressional Directed Transfers					
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

C. Accomplishments/Planned Programs (\$ in Millions)

	FY 2010	FY 2011	FY 2012
Title: Planning and Decision Aid System (PDAS)	3.617	2.288	2.402
Description: Planning and Decision Aid System (PDAS) is a classified automated information system protected program under Secretary of Defense (SecDef). PDAS supports the planning and execution of Integrated Joint Special Technical Operations.			
FY 2010 Accomplishments: Details of this program are classified.			
FY 2011 Plans: Details of this program are classified.			
FY 2012 Plans:			

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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 The Joint Staff	DATE: February 2011
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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0208043J: <i>Planning and Decision Aid System (PDAS)</i>
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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
Details of the program are classified.			
Accomplishments/Planned Programs Subtotals	3.617	2.288	2.402

D. Other Program Funding Summary (\$ in Millions)

N/A

E. Acquisition Strategy

Details of this program are classified.

F. Performance Metrics

Details of this program are classified.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 The Joint Staff **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0303149J: <i>Command, Control, Communications, Computers, and Intelligence for the Warrior (C4IFTW)</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	3.739	2.261	-	-	-	-	-	-	-	0.000	6.000
P001: <i>Communication Requirements Development Support</i>	0.801	0.886	-	-	-	-	-	-	-	0.000	1.687
P002: <i>Coalition Warrior Interoperability Demo</i>	1.457	-	-	-	-	-	-	-	-	0.000	1.457
P003: <i>Communications Operations Analysis and Integration</i>	1.481	1.375	-	-	-	-	-	-	-	0.000	2.856

A. Mission Description and Budget Item Justification

The Command, Control, Communications, Computers, and Intelligence for the Warrior (C4IFTW) vision evolved into the Department's Global Information Grid (GIG) as a means to achieve Information Superiority. The GIG is the globally interconnected, end-to-end set of information capabilities, associated processes, and personnel for collecting, processing, storing, disseminating and managing information on-demand to warfighters, policy makers, and support personnel. The GIG includes all owned and leased communications and computing systems and services, software (including applications), data, security services, and other associated services necessary to achieve Information Superiority. It also includes National Security Systems as defined in section 5142 of the Clinger-Cohen Act of 1996. The GIG supports all DOD, National Security, and related Intelligence Community missions and functions (strategic, operational, tactical and business), in war and in peace. The GIG also provides capabilities from all operating locations (bases, posts, camps, stations, facilities, mobile platforms, and deployed sites). Finally, the GIG provides interfaces to coalition, allied, and non-DOD users and systems.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 The Joint Staff	DATE: February 2011
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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0303149J: <i>Command, Control, Communications, Computers, and Intelligence for the Warrior (C4IFTW)</i>
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B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	3.739	2.261	1.459	-	1.459
Current President's Budget	3.739	2.261	-	-	-
Total Adjustments	-	-	-1.459	-	-1.459
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Dis-establishment of Joint Staff J6 - Command, Control, Communications, Computers, and Intelligence for the Warrior	-	-	-1.459	-	-1.459

Change Summary Explanation

The Joint Staff's FY 2012 Command, Control, Communications, Computers, and Intelligence for the Warrior program is dis-established as a Department efficiency offset.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0303149J: <i>Command, Control, Communications, Computers, and Intelligence for the Warrior (C4IFTW)</i>	PROJECT P001: <i>Communication Requirements Development Support</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
P001: <i>Communication Requirements Development Support</i>	0.801	0.886	-	-	-	-	-	-	-	0.000	1.687
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The Command, Control, Communications, Computers, and Intelligence for the Warrior (C4IFTW) vision evolved into the Department's Global Information Grid (GIG) as a means to achieve Information Superiority. The GIG is the globally interconnected, end-to-end set of information capabilities, associated processes, and personnel for collecting, processing, storing, disseminating and managing information on-demand to warfighters, policy makers, and support personnel. The GIG includes all owned and leased communications and computing systems and services, software (including applications), data, security services, and other associated services necessary to achieve Information Superiority. It also includes National Security Systems as defined in section 5142 of the Clinger-Cohen Act of 1996. The GIG supports all DOD, National Security, and related Intelligence Community missions and functions (strategic, operational, tactical and business), in war and in peace. The GIG also provides capabilities from all operating locations (bases, posts, camps, stations, facilities, mobile platforms, and deployed sites). Finally, the GIG provides interfaces to coalition, allied, and non-DOD users and systems.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2010	FY 2011	FY 2012
Title: Communication Requirements Development Support	0.801	0.886	-
Description: Supports Joint Command, Control, Communications, and Computers (C4) analytical tool development; Global Information Grid (GIG) transformational activities; GIG network operations and related network management and configuration management efforts, cyberspace operations, and joint C4 network and program development. Institutionalizes knowledge management capabilities across the Joint Staff. Ensures synchronization of systems to network capabilities, validates the Net-Ready Key Performance Parameters, and certifies interoperability and supportability.			
Beginning in FY 2012, this program absorbs functions from the Communications Operations Analysis and Integration (P003) program. Future operations will rely on seamless and fully integrated Satellite Communications and terrestrial Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) systems and networks - all capable of supporting network centric operations. The use of creative analytical methodologies, C4ISR assessment tools, modeling and simulation, functional analysis, architecture development and assessment tools, and other analytical techniques, as appropriate, will help the development of insights and solutions to further evolve to a fully connected, integrated, and interoperable force.			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff	DATE: February 2011
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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0303149J: <i>Command, Control, Communications, Computers, and Intelligence for the Warrior (C4IFTW)</i>	PROJECT P001: <i>Communication Requirements Development Support</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
<p><i>FY 2010 Accomplishments:</i> Completed actions required in National Military Strategy for Cyberspace Operations Implementation Plan. Supported incorporation of Cyber/NetOps into Guidance for the Employment of the Force, Guidance for the Development of the Force, JSCAP C4 annex. Supported USCYBERCOM standup.</p> <p><i>FY 2011 Plans:</i> Develop Network Operations C2 policy. Support Cyberspace Joint Operational Concept. Support COCOM planning process.</p> <p><i>FY 2012 Plans:</i> The Joint Staff's FY 2012 Command, Control, Communications, Computers, and Intelligence for the Warrior program is dis-established, as a Department efficiency offset.</p>			
Accomplishments/Planned Programs Subtotals	0.801	0.886	-

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

- FY11: Complete actions required in National Military Strategy for Cyberspace Operations Implementation Plan
- FY11: Track of IPv6 certification criteria
- FY11: Identify/develop venues to certify specific IPv6 criteria

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0303149J: <i>Command, Control, Communications, Computers, and Intelligence for the Warrior (C4IFTW)</i>	PROJECT P002: <i>Coalition Warrior Interoperability Demo</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
P002: <i>Coalition Warrior Interoperability Demo</i>	1.457	-	-	-	-	-	-	-	-	0.000	1.457
Quantity of RDT&E Articles	0	0	0		0	0	0	0	0		

A. Mission Description and Budget Item Justification

The Command, Control, Communications, Computers, and Intelligence for the Warrior (C4IFTW) vision evolved into the Department's Global Information Grid (GIG) as a means to achieve Information Superiority. The GIG is the globally interconnected, end-to-end set of information capabilities, associated processes, and personnel for collecting, processing, storing, disseminating and managing information on-demand to warfighters, policy makers, and support personnel. The GIG includes all owned and leased communications and computing systems and services, software (including applications), data, security services, and other associated services necessary to achieve Information Superiority. It also includes National Security Systems as defined in section 5142 of the Clinger-Cohen Act of 1996. The GIG supports all DOD, National Security, and related Intelligence Community missions and functions (strategic, operational, tactical and business), in war and in peace. The GIG also provides capabilities from all operating locations (bases, posts, camps, stations, facilities, mobile platforms, and deployed sites). Finally, the GIG provides interfaces to coalition, allied, and non-DOD users and systems.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2010	FY 2011	FY 2012
Title: Coalition Warrior Interoperability Demonstration	1.457	-	-
Description: The Command, Control, Communications, Computers, and Intelligence for the Warrior (C4IFTW) program evolved into the Department's Global Information Grid (GIG) as a means to achieve information superiority. Coalition Warrior Interoperability Demonstration (CWID) provides focus and visibility into resolving joint, coalition, and national civil authority C4 interoperability issues and provides organizing principles, techniques, and procedures for achieving information superiority as envisioned by Joint Vision 2020. The GIG stresses interoperability and CWID leverages the rapid pace of C4 technology advancements. CWID is a Chairman's annual event that enables the US combatant commands, national civil authorities, and international community to investigate command, control, communications, computers, intelligence, surveillance and reconnaissance (C4ISR) solutions that focus on relevant and timely objectives for enhancing coalition interoperability and exploring new partnerships. CWID is conducted in a simulated operational environment to provide context for warfighter and national civil authorities' validation of those solutions. Interoperability Trials (ITs) are the activities used to address the core coalition and interagency interoperability objectives selected each year. ITs strive to address warfighter requirements and interoperability deficiencies. The selection of trials is dependent upon the annual overarching objectives, the host combatant command's priorities, Coalition/State/Agency desires to partner in a proposed trial, interagency participation, and the desires of invited coalition participants. CWID is an integral component of the JV 2020 conceptual template.			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0303149J: <i>Command, Control, Communications, Computers, and Intelligence for the Warrior (C4IFTW)</i>	PROJECT P002: <i>Coalition Warrior Interoperability Demo</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
<p><i>FY 2010 Accomplishments:</i> Focused on real world and future problems (i.e., CENTRIX-ISAF). Exploited opportunities for integration and collaboration with CYBERCOM. Evaluated 40 technologies and capabilities (many new and emerging) for exchanging information among coalition partners, military services, government agencies, first responders and U.S. combatant commanders. Investigated capabilities to develop an Information Communication Technologies umbrella for coalition operations to facilitate multinational command and control. Developed criteria/standards for assessing technologies to be measured against for use in a “coalition environment”. Conducted day-to-day program operations, six planning conferences/meetings, and demonstration execution.</p> <p><i>FY 2011 Plans:</i> None. This program was transferred to USJFCOM, as directed by the Vice Chairman, in FY2011.</p> <p><i>FY 2012 Plans:</i> None.</p>			
Accomplishments/Planned Programs Subtotals	1.457	-	-

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

None. This program was transferred to USJFCOM, as directed by the Vice Chairman, in FY11.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0303149J: <i>Command, Control, Communications, Computers, and Intelligence for the Warrior (C4IFTW)</i>	PROJECT P003: <i>Communications Operations Analysis and Integration</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
P003: <i>Communications Operations Analysis and Integration</i>	1.481	1.375	-	-	-	-	-	-	-	0.000	2.856
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The Command, Control, Communications, Computers, and Intelligence for the Warrior (C4IFTW) vision evolved into the Department's Global Information Grid (GIG) as a means to achieve Information Superiority. The GIG is the globally interconnected, end-to-end set of information capabilities, associated processes, and personnel for collecting, processing, storing, disseminating and managing information on-demand to warfighters, policy makers, and support personnel. The GIG includes all owned and leased communications and computing systems and services, software (including applications), data, security services, and other associated services necessary to achieve Information Superiority. It also includes National Security Systems as defined in section 5142 of the Clinger-Cohen Act of 1996. The GIG supports all DOD, National Security, and related Intelligence Community missions and functions (strategic, operational, tactical and business), in war and in peace. The GIG also provides capabilities from all operating locations (bases, posts, camps, stations, facilities, mobile platforms, and deployed sites). Finally, the GIG provides interfaces to coalition, allied, and non-DOD users and systems.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2010	FY 2011	FY 2012
Title: Communications Operations Analysis & Integration	1.481	1.375	-
Description: Future operations rely on seamless and fully integrated Satellite Communications and terrestrial Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) systems and networks - all capable of supporting network centric operations. The use of creative analytical methodologies, C4ISR assessment tools, modeling and simulation, functional analysis, architecture development and assessment tools, and other analytical techniques, as appropriate, will help the development of insights and solutions to further evolve to a fully connected, integrated, and interoperable force.			
FY 2010 Accomplishments: Supported the GIG 2.0 Implementation Plan. Developed the GIG 2.0 DST. Built an Interoperability and Supportability (I&S) Process Model and a GIG 2.0 Governance Process Model. Completed the Net Centric Data Strategy Guide. Assisted in the re-write of the CJCSI 6212 and the Net Ready KPP. Developed the modification of the Net Centric Capability Delivery Increments (CDI) document.			
FY 2011 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0303149J: <i>Command, Control, Communications, Computers, and Intelligence for the Warrior (C4IFTW)</i>	PROJECT P003: <i>Communications Operations Analysis and Integration</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
Produce a process model for the JS J6 business processes. Support the implementation of the Interoperability and Supportability (I&S) processes. Support the Cyber Division in the execution of the DOD cyber missions. Continue support to the GIG 2.0 processes in the oversight and governance of the GIG. <i>FY 2012 Plans:</i> The Joint Staff's FY 2012 Command, Control, Communications, Computers, and Intelligence for the Warrior program is dis-established, as a Department efficiency offset.			
Accomplishments/Planned Programs Subtotals	1.481	1.375	-

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

Produce written summaries of key Frequency Panel sub-group meetings and preparatory meetings for annual COCOM spectrum management conferences.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 The Joint Staff **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>				PE 0902298J: <i>Management Headquarters</i>							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	5.011	2.807	2.730	-	2.730	2.560	2.571	2.471	2.402	Continuing	Continuing
P001: <i>Joint Staff Information Network (JSIN)</i>	5.011	2.807	2.730	-	2.730	2.560	2.571	2.471	2.402	Continuing	Continuing

A. Mission Description and Budget Item Justification

Management Headquarters provides the day-to-day financial resources necessary to support TJS operations. Across the Joint Staff, Management Headquarters supports various efforts including network infrastructure, civilian pay accounts, supplies, travel, training, portfolio management, business process reviews, and transformation initiatives.

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	5.011	2.807	2.864	-	2.864
Current President's Budget	5.011	2.807	2.730	-	2.730
Total Adjustments	-	-	-0.134	-	-0.134
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Revised software development estimate	-	-	-0.134	-	-0.134

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0902298J: <i>Management Headquarters</i>	PROJECT P001: <i>Joint Staff Information Network (JSIN)</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
P001: <i>Joint Staff Information Network (JSIN)</i>	5.011	2.807	2.730	-	2.730	2.560	2.571	2.471	2.402	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

Management Headquarters provides the day-to-day financial resources necessary to support TJS operations. Across the Joint Staff, Management Headquarters supports various efforts including network infrastructure, civilian pay accounts, supplies, travel, training, portfolio management, business process reviews, and transformation initiatives.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2010	FY 2011	FY 2012
Title: Joint Staff Information Network (JSIN)	5.011	2.807	2.730
<p>Description: Provides RDT&E funds for the Joint Staff Information Network (JSIN). JSIN is the network infrastructure (for both classified and unclassified information) enabling collaboration and information-sharing among the Joint Staff, Combatant Commands (COCOMs) and the Services. The JSIN also provides crucial business-related, decision-making information and workflow support affecting military operations in support of the JCS. JSIN improves actions processing for faster coordination of critical issues with COCOMs, Services, and agencies, as well as within TJS.</p>			
<p>FY 2010 Accomplishments: Enhanced eVTC capabilities. Upgraded IT capabilities for Chairman, JCS. Upgraded communications hardware & software. Implemented computer and server intrusion prevention and detection capability. Enhanced enterprise monitoring/reporting and computer configuration control capabilities. Improved IT automated service support/delivery management system. Implemented GO remote communications capabilities. Increased secure, mobile electronic data/voice capabilities. Upgraded communications at JS contingency location. Initiated Joint Training Information Management System (JTIMS) development. Developed users' communication issue resolution capability. Deployed MS Office and Exchange 2007 enhanced capabilities. Modernized network architecture and expand Test Lab. Initiated web portal enhancements. Researched JS IT strategic direction and improvements.</p>			
<p>FY 2011 Plans: Develop enhanced JS automated task/workflow management system. Modernize network architecture. Upgrade communications hardware & software. Research JS IT strategic direction and improvements. Complete web portal and content discovery enhancements. Provide secure, mobile electronic data/voice capabilities. Enhance identification/secured network access capabilities. Complete JTIMS implementation.</p>			
<p>FY 2012 Plans:</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 The Joint Staff		DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0902298J: <i>Management Headquarters</i>	PROJECT P001: <i>Joint Staff Information Network (JSIN)</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012
Provide support for Hotel Applications, fully mobile multi-domain communications, Enterprise Services Implementation, Thin Client expansion, Content Management and Federated Search, migration to cloud computing, SharePoint services, and eJMAPS.				
Accomplishments/Planned Programs Subtotals		5.011	2.807	2.730
C. Other Program Funding Summary (\$ in Millions) N/A				
D. Acquisition Strategy N/A				
E. Performance Metrics				
<ul style="list-style-type: none"> - Prevent data breaches and respond to incidents within two hours of notification - 100% on-time patching in accordance with Joint Task Force-Global Network Operations (JTF-GNO) timelines - Resolve normal urgency tickets within 48 hours - 100% accountability of IT equipment in JS property book - Provide resolution for the customer's issues the first time they contact a technician for assistance 				

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